

Report for P.M.B. Technologies, LLC

Sample ID	Lot Number	Brunswick ID
Protocol 23	n/a	05-0662
Protocol formula 50	3112606	05-0871

The samples were prepared by mixing 1ml sample with 49ml mobile phase A (pH=2.5)
They were sonicated 15min, centrifuged, filtered and injected.

The gradient HPLC system includes a HP 1110 system equipped with a DAD detector (Hewlett-Packard, Palo Alto, CA).

The instrumental conditions are summarized below:

Mobile phase:

A: DI H₂O:Acetonitrile: Acetic Acid (89:9:2)

B: Acetonitrile:DI H₂O (80:20)

Gradient: 0-10 min. linear 0%B
10-25 min. linear 40% B
25-30 min. linear 100% B
30-35 min. linear 100%B


Column: Phenomenex Luna Phenyl-Hexyl (250 x 4.6mm)

Flow rate: 1.0 ml/min.

Absorption: 200, 280, and 500nm

Testing performed by N McHale and B. Ou.

Approved by:


Boxin Ou, PhD.

B-2955 / 4-26-05nm

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Sample ID	Brunswick Lab ID	ORAC _{hydro} ¹ (μ mole TE/L)
Protocol 50 Lot# 3112606	05-0871	1,391,605

*The ORAC analysis provides a measure of the scavenging capacity of antioxidants against the peroxy radical, which is one of the most common reactive oxygen species (ROS) found in the body. ORAC_{hydro} reflects water-soluble antioxidant capacity.

Trolox, a water-soluble Vitamin E analog, is used as the calibration standard and the ORAC result is expressed as micromole Trolox equivalent (TE) per liter.

The acceptable precision of the ORAC assay is 15% relative standard deviation.¹

Testing performed by J. Flanagan.

Approved by:


Boxin Ou, PhD.

B-2955b / 5-18-05 jt

¹ Ou, B; Hampsch-Woodill, M.; Prior, R. L.; Development and Validation of an Improved Oxygen Radical Absorbance Capacity Assay using Flourescein as the Fluorescent Probe. Journal of Agricultural and Food Chemistry., 2001; 49(10); 4619-4626

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Sample ID	Brunswick Lab ID	ORAC _{hydro} * (μ moleTE/L)
Protocol 23 Lot# 3112607 ex 12/05	05-0662	1,450,935

*The ORAC analysis provides a measure of the scavenging capacity of antioxidants against the peroxy radical, which is one of the most common reactive oxygen species (ROS) found in the body. ORAC_{hydro} reflects water-soluble antioxidant capacity.

Trolox, a water-soluble Vitamin E analog, is used as the calibration standard and the ORAC result is expressed as micromole Trolox equivalent (TE) per liter.

The acceptable precision of the ORAC assay is 15% relative standard deviation.¹

Testing performed by J. Flanagan.

Approved by: 
Boxin Ou, PhD.

B-2955 / 3-15-05 kp

¹ Ou, B; Hampsch-Woodill, M.; Prior, R. L.; Development and Validation of an Improved Oxygen Radical Absorbance Capacity Assay using Fluorescein as the Fluorescent Probe. *Journal of Agricultural and Food Chemistry.*; 2001; 49(10); 4619-4626